



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Hironori TAKAHASHI et al. )

U.S. Application No.: 10/533,453 ✓ )

Group Art Unit: Unassigned

Filed: May 2, 2005 )

Examiner: Unassigned

For: DEUTERON GENERATING TARGET )  
AND DEUTERON GENERATING TARGET )  
APPARATUS INCLUDING THE SAME )

Commissioner of Patents

**MAIL STOP AMENDMENT**

Sir:

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. § 1.97(b)**

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicants bring to the attention of the Examiner the documents listed on the attached PTO-1449. This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application.

An International Search Report (ISR) dated February 3, 2004 is attached together with a copy of each document listed on the PTO Form 1449 that is not a U.S. patent or U.S. patent publication.

Applicants respectfully request that the Examiner consider the listed documents and evidence that consideration by making appropriate notations on the attached form. As for any document listed on the accompanying PTO-1449 that is in a language other than English, relevance can be understood from an enclosed English abstract or at least partial translation or from mention in the specification or in a search report for a corresponding application.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that the listed documents are material or constitute "prior


art.” If it should be determined that any of the listed documents do not constitute “prior art” under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such document.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over any of the listed documents, should any of the documents be applied against the claims of the present application.

**Except** for issue fees payable under 37 C.F.R. § 1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this Application, including fees due under 37 C.F.R. § 1.16 and 1.17 which may be required and including any required extension of time fees, *or* credit any overpayment to Deposit Account No. 50-0573. This paragraph is intended to be a **CONSTRUCTIVE PETITION FOR EXTENSION OF TIME** in accordance with 37 C.F.R. § 1.136(a)(3).

Respectfully submitted,

**DRINKER, BIDDLE & REATH LLP**

  
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Dated: August 19, 2005

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PTO Form 1449		Applicants Hironori TAKAHASHI et al.		Page 1 of 1		
		Filing Date: May 2, 2005		Group Art Unit: Unassigned		
<b>U.S. PATENT DOCUMENTS</b>						
*Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
	3,963,934 A	June 15, 1976	Ormrod	250	499	
<b>FOREIGN PATENT DOCUMENTS</b>						
	Document Number	Date	Country	Class	Sub Class	<u>Translation</u> <b>YES</b> <b>NO</b>
	02-77700	June 14, 1990	Japan			<b>Partial</b>
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>						
Santala, et al., "Production of radioactive nuclides by energetic protons generated from intense laser-plasma interactions," Applied Physics Letters, Vol. 78, No. 1, January 1, 2001, pp. 19-21.						
Nemoto, et al., "Laser-triggered ion acceleration and table top isotope production," Applied Physics Letters, Vol. 78, No. 5, January 29, 2001, pp. 595-597.						
Spencer, et al., "Laser generation of proton beams for the production of short-lived positron emitting radioisotopes," Nuclear Instruments and Methods in Physics Research B 183, 2001, pp. 449-458.						
Sakabe, et al., "Generation of Radiations with Ultra-intense Lasers Expectation on Laser Nuclear Engineering," Nihon Genshiryoku Gakkai-shi, Vol. 43, Nov. 10, 2001, pp. 996-1004 (with at least partial translation).						
Encyclopedia of Clinical Radiology, Vol. 6 POSITRON CT, Nakayama Syoten, 1989 (with at least partial translation)						
Examiner				Date Considered		
Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						